

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Previously presented) A method for generating antibiotic resistant bacteria comprising the steps of:
  - introducing a dominant negative allele of a mismatch repair gene into said bacterium whereby said bacterium becomes hypermutable;
  - contacting said bacterium with a plurality of antibiotics;
  - selecting a bacterium that is resistant to said plurality of antibiotics; and
  - culturing said bacterium;
  - thereby generating antibiotic resistant bacteria.
2. (Canceled)
3. (Original) The method of claim 2 wherein said dominant negative allele of a mismatch repair gene is a *PMS2-134* gene.
- 4-13. (Canceled)
14. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a quinilone.
15. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises an aminoglycoside.
16. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a magainin.
17. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a defensin.

18. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a tetracycline.

19. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a beta-lactam.

20. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a macrolide.

21. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a licosamide.

22. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a sulfonamide.

23. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a chloramphenicol.

24. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a nitrofurantoin.

25. (Previously presented) The method of claim 1 wherein said plurality of antibiotics comprises a isoniazid.

26. (Canceled)

27. (Original) The method of claim 1 further comprising making antibiotic resistant bacteria genetically stable.

28-37. (Canceled)

38. (Previously presented) An antibiotic resistant bacterium wherein said bacterium is resistant to a plurality of antibiotics, and wherein said bacterium comprises a dominant negative allele of a mismatch repair gene.

39-41. (Canceled)

42. (Previously presented) The antibiotic resistant bacteria of claim 38 wherein said dominant negative allele of a mismatch repair gene is *PMS2-134*.